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MEMORANDUM FOR: Distribution

FROM :
Director, Consolidated SAFE Project Office/ODP

SUBJECT : SAFE Quarterly Status Report for Second
Quarter of FY-81

Attached is the SAFE Project Quarterly Status
Report for the Second Quarter of FY-81.



STAT

Attachment: As stated

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CONSOLIDATED SAFE PROJECT

QUARTERLY STATUS REPORT

SECOND QUARTER FY-81

I. ACCOMPLISHMENTS AGAINST PLAN:

A. Systems Acquisition Phase Prime Contract - TRW's design effort continued to intensify during the second quarter, as did the frequency of the design reviews by the Government. An Initial Design Review (IDR) for Block 1 Increment 1 was held at TRW's SAFE Development Facility (DF) on 19-22 January 1981. On 4-5 March a Conversion Requirements Review (CRR) was held to allow TRW to demonstrate their data conversion concepts for CIA and DIA and to review plans and schedules for the remaining conversion requirements analysis. The SAFE System Preliminary Detailed Design Review (PDR) was held on 23 March - 1 April. In addition to the PDR, the Block 1 Increment 1 Detailed Design Review (DDR) and the Block 1 Increment 2 Initial Design Review (IDR) were held during the same time period. While the CSPO considered the reviews useful and productive, some potentially serious schedule difficulties were surfaced which will require follow-up action. As expressed in the TRW Monthly Progress Report (March 1981), there is also some concern as to the accuracy and completeness of information collected on DIAOLS. To provide sufficient resolution to these problems the Conversion Requirements Review (CRR) has been split into three reviews. A second CRR is scheduled for early June 1981 with a third scheduled for October 1981. The first and second CRR's primarily address key files for producing finished intelligence products, i.e., AIF and OB's. The third CRR will deal primarily with ancillary files. (See Issues and Problems) Other areas of accomplishment included:

- o System Engineering -- The System Engineering effort centered on the revision of various design specifications which were reviewed at the PDR. Other System Engineering work included SAFE simulation runs, publishing of the Reliability/Availability/Maintainability (RAM) Analysis Report, and work on the SAFE training approach and site activation planning.

- o Subsystems Development -- Block 1 design activity continued in the areas of user language, system services software, data management software, and applications software. In addition, work was done on hardware configuration, system design, host/terminal software and performance analysis. The Block 3 effort was a continuation of activities in conversion requirements analysis and system design.

o Communications -- The installation of the coaxial cable for the wideband system in the CIA Headquarters Building continues to proceed on schedule. The Burroughs Corporation was awarded a subcontract to develop the SAFE Processor Interface Units (PIU's), which will enable the SAFE host computers to communicate through the wideband data bus to Bus Interface Units (BIU's) and the associated SAFE terminals. Development of the BIU's is also currently underway.

o ADPE/Materiel -- Major hardware procurements during this quarter were for Burroughs computers and peripherals for the SAFE Development Facility in Torrance, California. Three Burroughs computer systems (one maxi-computer and two midi-computers) have now been installed and conditionally accepted and the installation of two more midi-computers has begun. The process of connecting some Delta Data SAFE terminals to the Burroughs equipment has also begun.

II. ACTIVITIES PLANNED FOR THE THIRD QUARTER FY-81

System Acquisition Phase Prime Contract - Detailed design activities will continue during the next quarter. Emphasis will be on activities designed to address deficiencies which surfaced at the PDR. Block 3 development activities will continue to be structured to address critical design issues, design concepts and requirements issues whose resolution will evolve into a Block 3 system-level design. An In-Progress Review will be conducted in June 1981 to review the Block 3 system design. Also in June, a second Conversion Requirements Review will be conducted to review the mapping of the DIAOLS capabilities and products into the SAFE D system.

The remaining two Burroughs computer systems for the Development Facility are scheduled for acceptance testing in the third quarter. Installation of the coaxial cable system in the CIA Headquarters Building will be completed. Activity will continue on the design and development of the wideband bus system. Engineering design and test of hardware interfaces to cryptographic equipment and wideband communications will also continue.

III. RELATED ACTIVITIES

A. SAFE Overview Briefings - The following SAFE overview briefings were given during the quarter: On 28 January, to [redacted]; 9 February, to the new CIA system architect, Mr. [redacted]; 11 February, to personnel from the [redacted]; 12 February, to two staff members of the House of Representatives Select Committee on Intelligence; 27 February, to Mr. Zimmerman of the White House Information Systems Staff; 12 March, to new members of the IC Staff; and on 17 March, to personnel from the Department of Justice.

B. Burroughs Training - On 9 March, instructors from Burroughs Corporation began a series of short courses for the CSPO and other interested CIA and DIA personnel on Burroughs hardware and software principles. The series of courses will continue until mid-May 1981.

IV. ISSUES AND PROBLEMS

A. TRW Schedule Audit - As a result of issues raised at PDR, TRW conducted an internal audit of schedule status which identified a potential slippage of three to six months. Corrective actions are now being planned.

B. Funding - TRW is seeking an additional \$1.4M for FY-1981. This request is now being analyzed by the CSPO.

C. Conversion Requirements - In reference to the conversion problem cited in paragraph I.A., TRW feels that the delays they are experiencing with conversion are in part created by a changing DIAOLS environment and some discrepancies in the DIAOLS documentation furnished to them by the Government. The Government has taken action to ensure that significant DIAOLS changes which affect SAFE design are identified and passed to TRW. However, while the CSPO acknowledges that these factors have caused some delay, the CSPO believes that the overriding factor for TRW being behind in conversion requirements identification is TRW's late start coupled with insufficient manpower assigned to the task. TRW is just now becoming aware of the complexity of the DIAOLS data bases and with this realization is now registering concern. The CSPO realized the magnitude of the very difficult problem associated with identifying conversion requirements more than a year ago and has repeatedly brought this problem to TRW's attention.

V. MILESTONES

Conversion Requirements Review II	8-10 June 1981
Block 3 In Progress Review (Segment 5)	29 Jun-3 Jul 1981
Block 1 Detailed Design Review (Segment 2)	3-7 August 1981
Block 1 Initial Design Review (Segment 3)	3-7 August 1981
Communications Critical Design Review (CDR)	17-19 August 1981
First Delivery of Burroughs Hardware to CIA	Mid-September 1981